

http://www...

Bid on 2 Auctions
Win Only 1 Auction at minimum

Best Price

Enter Auction IDs

101 ✓

101 ✓

Enter maximum Bid

102 ✓

Enter maximum number of Auctions to win

103 ✓

Participate in Auctions

104 ✓

Fig 1

http://www. . .

Bid on 2 Auction; (Preferred Auction)
 With preference to Win a certain auction

	Auction = A	Maximum Bid
Preferred Auction	<input type="text"/>	<input type="text"/>
	L201	L202
Second Choice Auction	<input type="text"/>	<input type="text"/>
	L203	L204

Participate in Auctions

L205

Fig 2

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http://www...

Bid on 2nd Auction (Contingent Auction)
Only if bid on 1st Auction successful

	Auction ID	Maximum Bid
1st Auction	<input type="text"/>	<input type="text"/>
	301	303
2nd Auction	<input type="text"/>	<input type="text"/>
	302	304

Participate In Auction

305

Fig 3

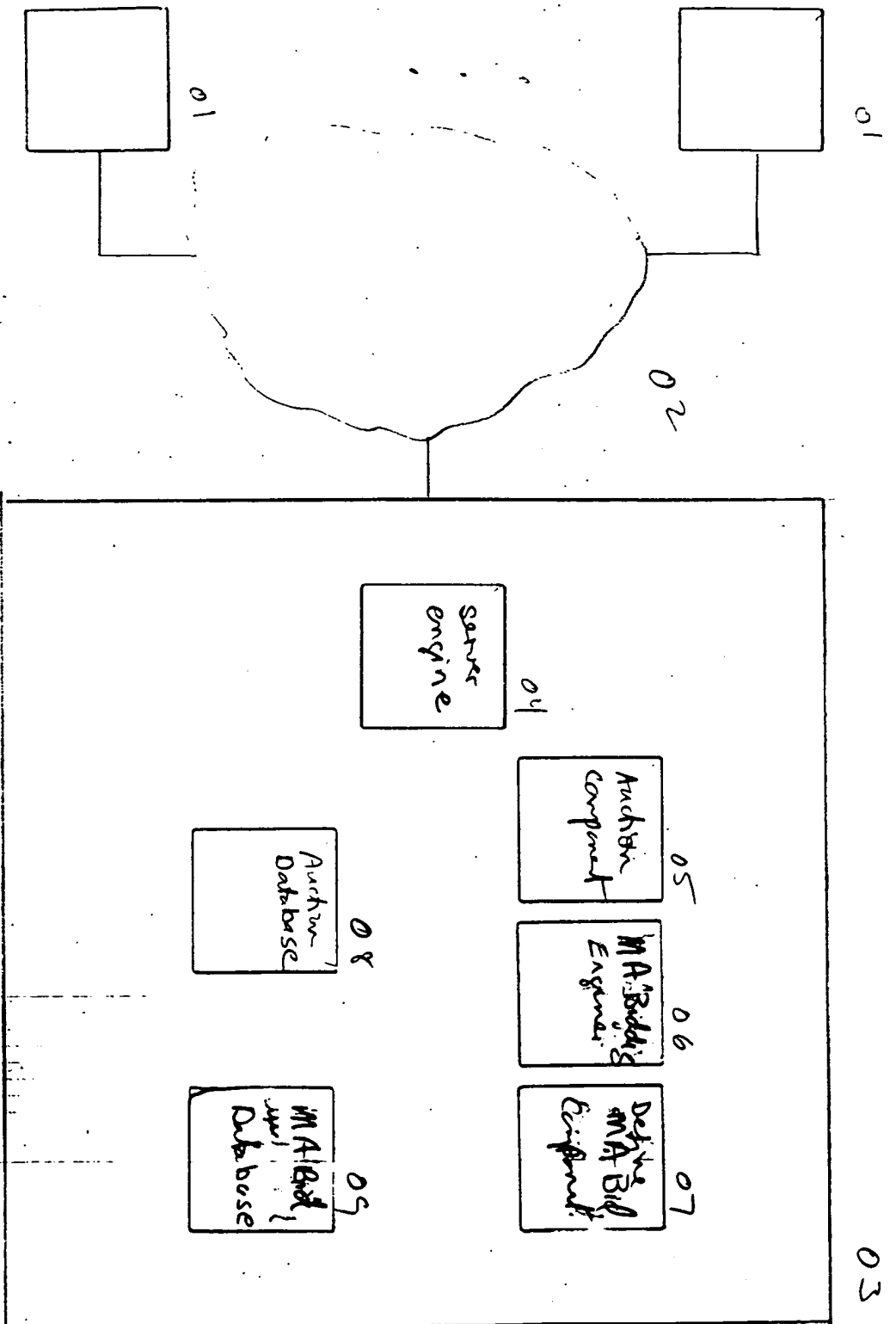


Fig 4

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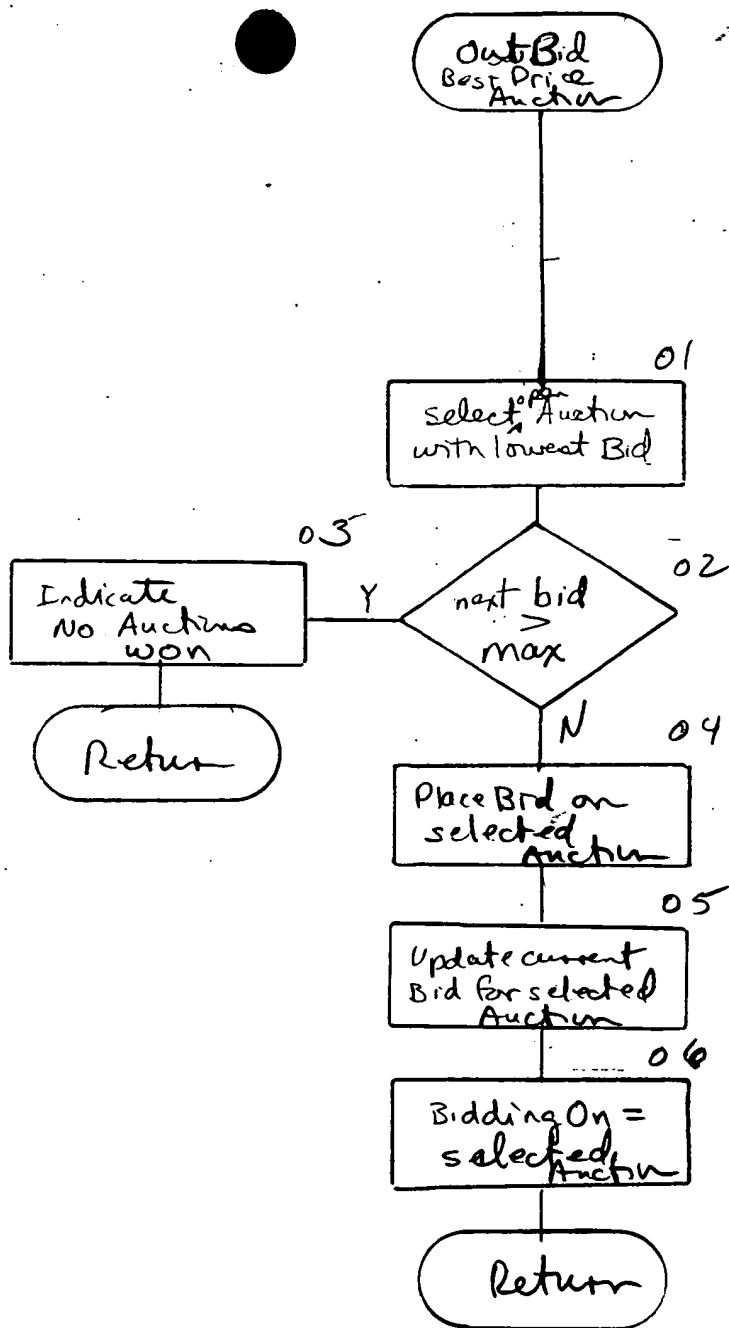


Fig 5

Win Auction

Indicate
Auction won

Return

Fig 6

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10
11

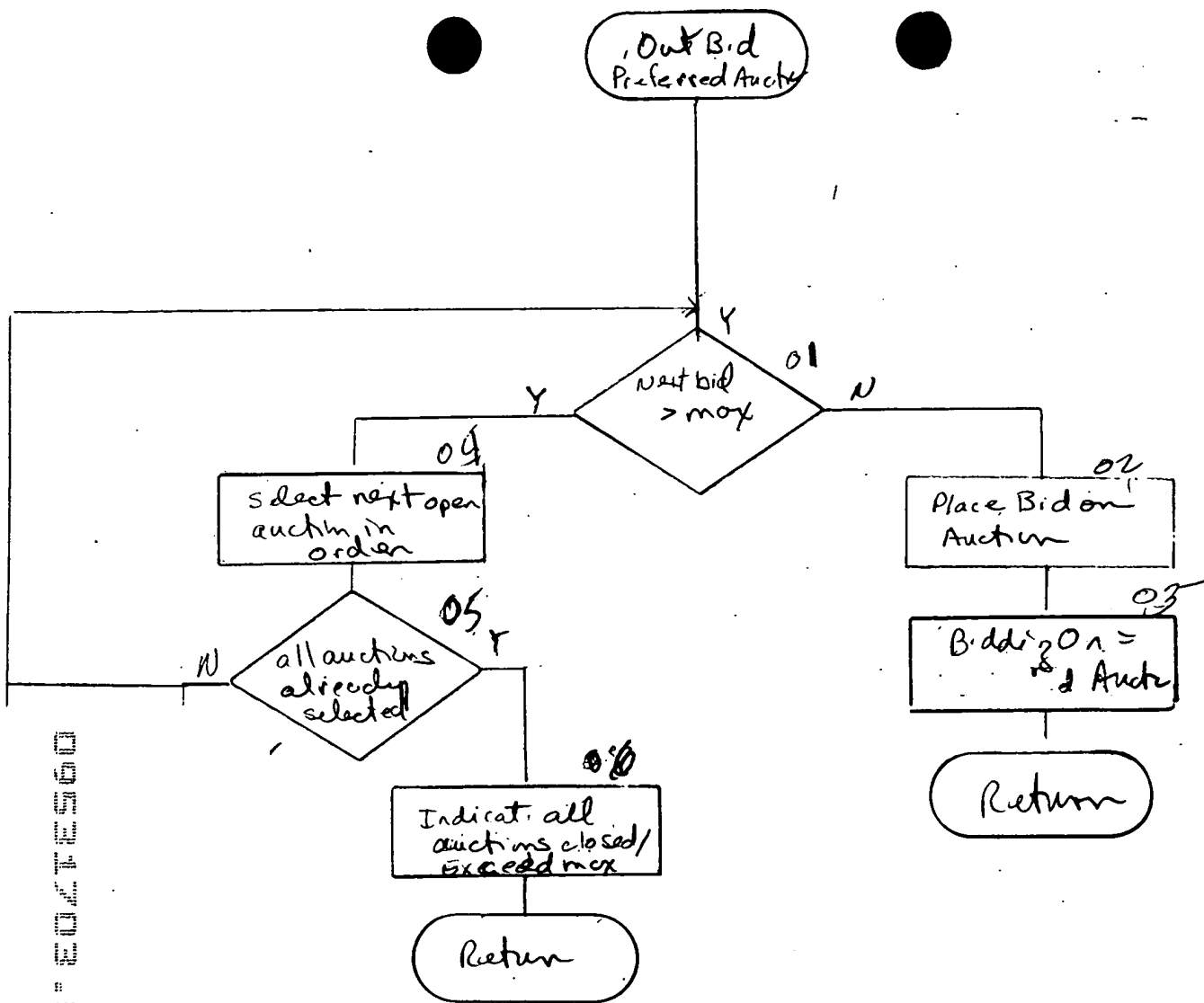


Fig 7

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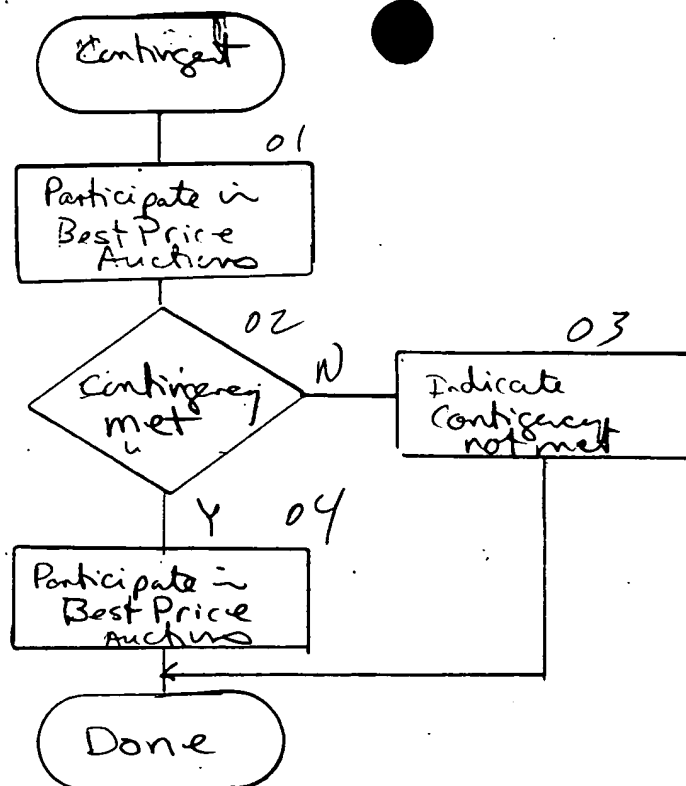


Fig 8

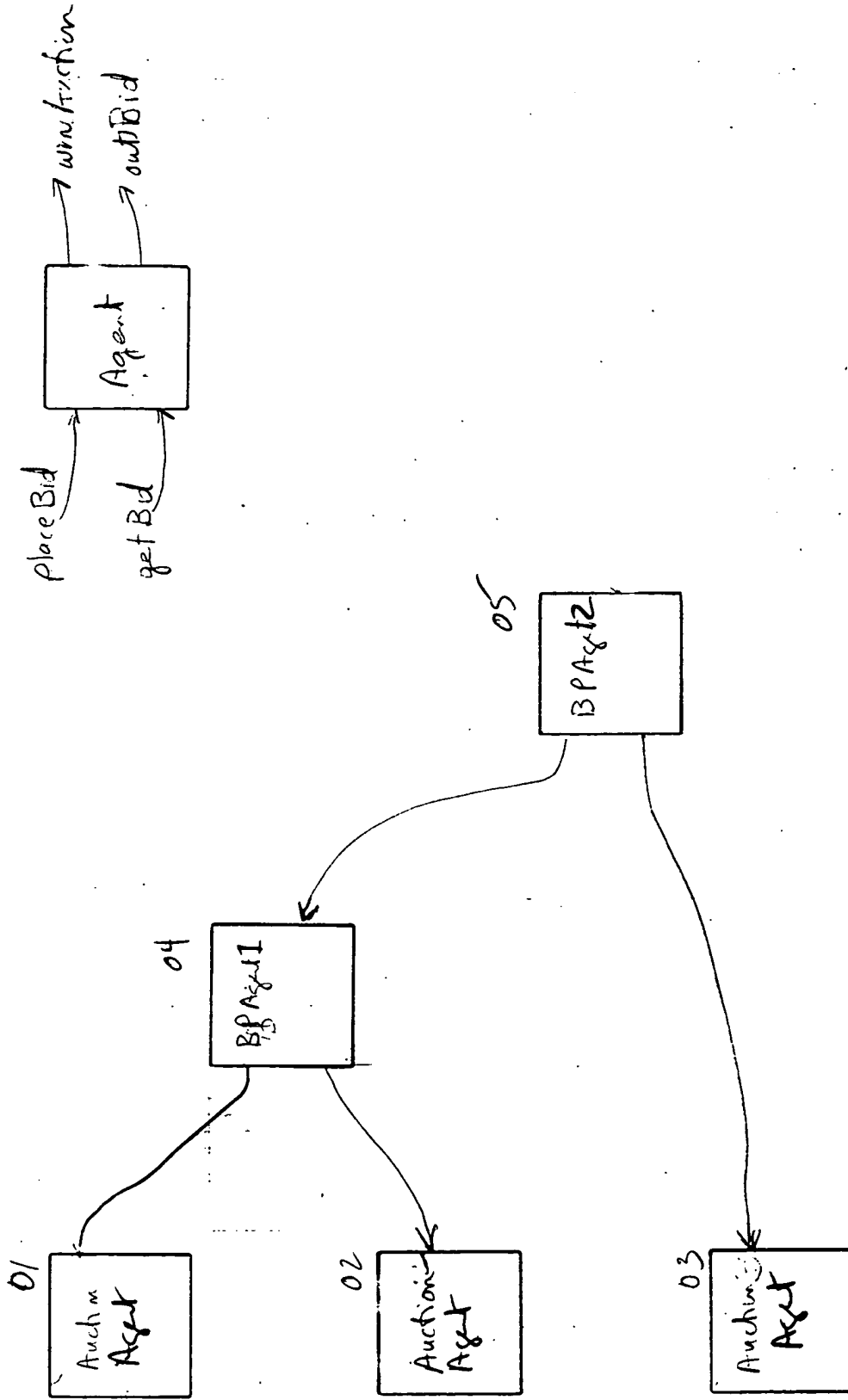


Fig 9

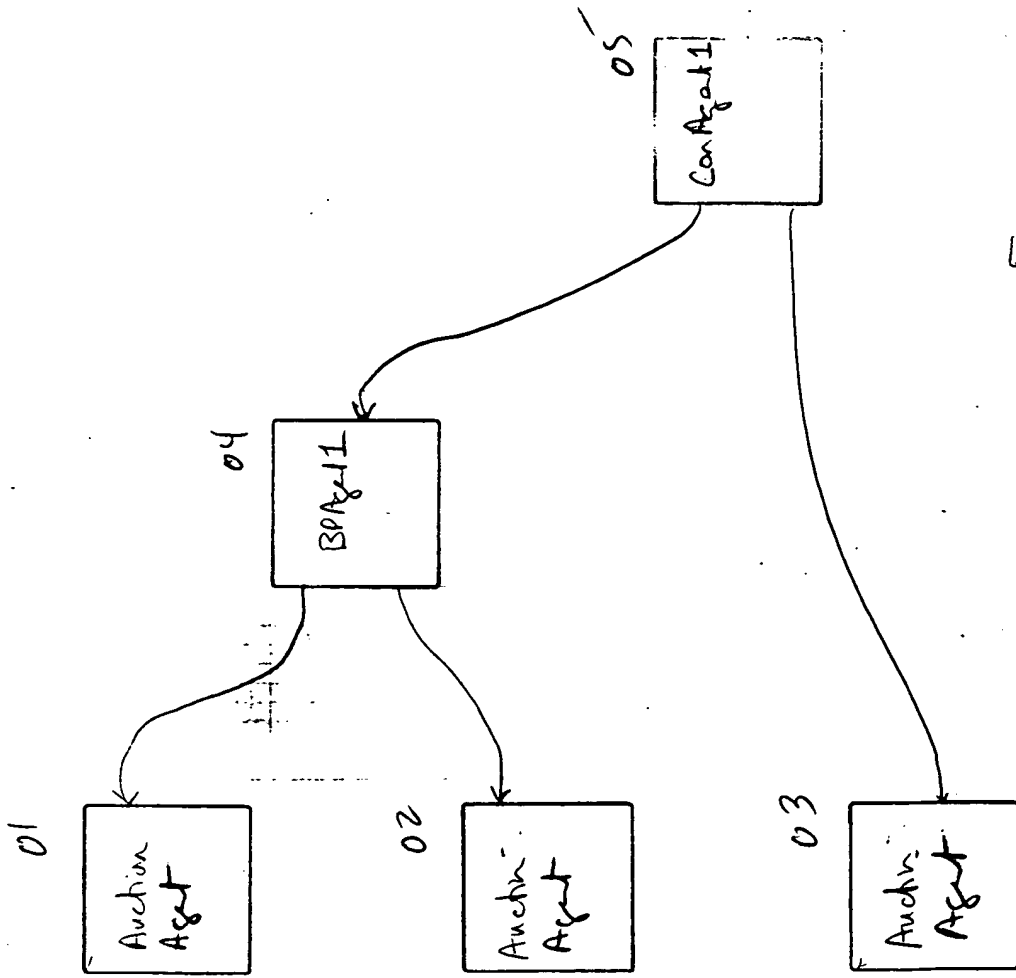


Fig 10

BP Agent 01

02

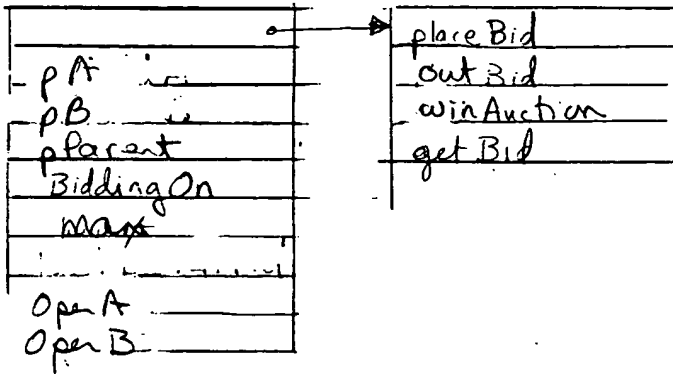


Fig 11

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graph TD
    Start([BP Agent:: placeBid]) -- 01 --> OpenA[Open A = PA -> getBid(BidA)]
    OpenA -- 02 --> OpenB[Open B = PB -> getBid(BidB)]
    OpenB -- 03 --> OrOpen{open A or Open B}
    OrOpen -- N --> Error1([Return Error])
    OrOpen -- Y --> AndOpen{open A and Open B}
    AndOpen -- Y --> BidAgtB{Bid A < Bid B}
    AndOpen -- N --> BidA
    BidAgtB -- Y --> BidA
    BidAgtB -- N --> BidBgtMax
    BidA --> BidAgtMax{Bid A < max}
    BidAgtMax -- Y --> PlaceBidA[PBiddingOn = PA  
PA -> placeBid()]
    BidAgtMax -- N --> BidBgtMax
    BidBgtMax{Bid B < max}
    BidBgtMax -- Y --> PlaceBidB[PBiddingOn = PB  
PB -> placeBid()]
    BidBgtMax -- N --> Error2([Return error])
    PlaceBidA --> End([Return OK])
    PlaceBidB --> End
    Error1 --> End
    Error2 --> End

```

Fig 12

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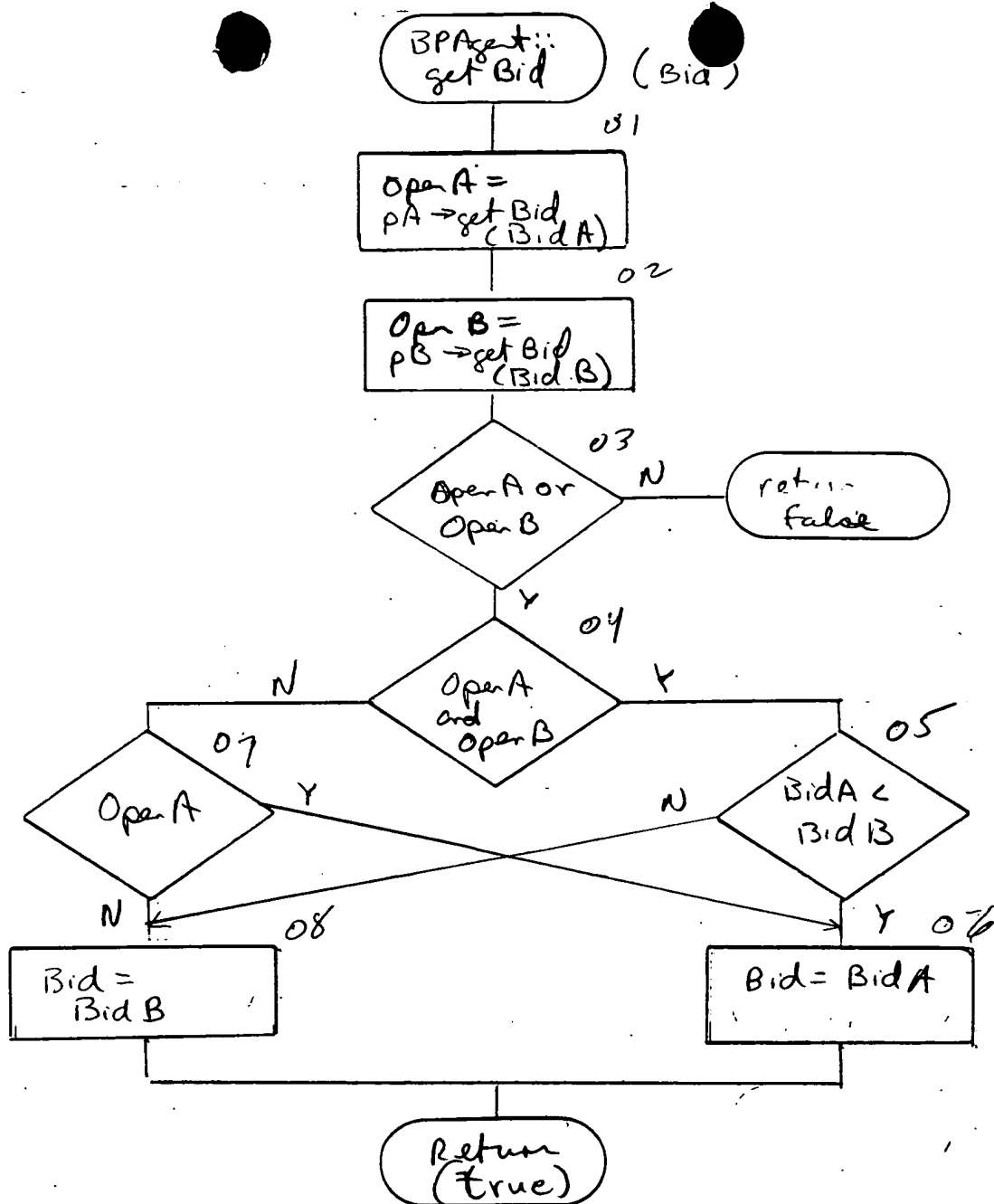


Fig 13

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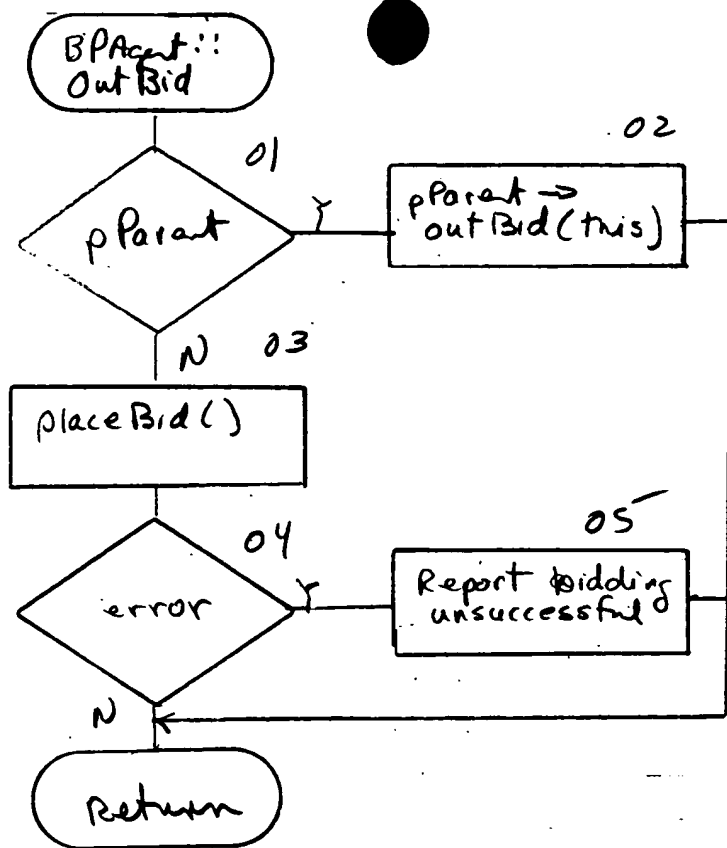


Fig 14

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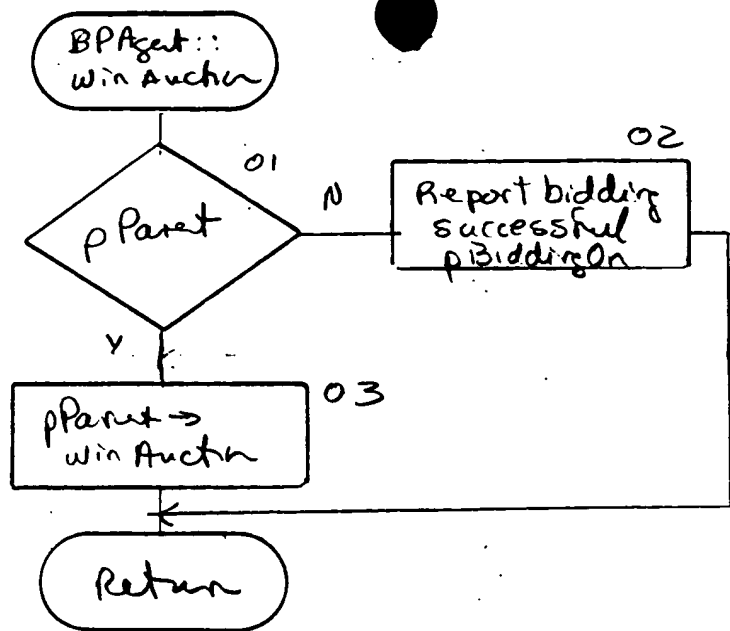


Fig 15